

## ABSTRACT:

A method of transmitting data signals between a base station and a plurality of moving data media is described, in which, for the purpose of starting a data transmission, the base station emits a command signal in response to which data media, which receive this command signal, each send a response signal to the base station, whereupon the base station  
5 selects one of the data media for data transmission, and the transmission of data from the data medium to the base station is triggered solely in this selected data medium.

According to the invention, in such a method a select code is appended to the signals which are sent by the base station solely for a selected data medium (i.e. transponder), by means of which select code these signals are marked as sent by the base station solely for a selected  
10 data medium, and the emission of data signals to the base station upon the reception of a data signal sent by the base station and comprising a select code is suppressed independently of the remaining content of this data signal sent by the base station in all data media not previously selected by the base station for data transmission.

In systems with moving transponders, the invention ensures in a simple way  
15 an unambiguous distinction between data signals that are to be transmitted solely to a selected transponder and data signals which are also intended for non-selected transponders. It permits a reliable data transmission and therefore a reduction of the error rate. This is achieved both for systems with encrypted data transmission to the transponder and with non-encrypted data transmission. The respective encryption method applied is not affected  
20 thereby.

Fig. 2